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PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International					
2002P20296WO	Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/DE2003/003913	International filing date (day/month/year) Priority date (day/month/year) 26 November 2003 (26.11.2003) 17 January 2003 (17.01.2003)					
International Patent Classification (IPC) or national classification and IPC						
G05F 1/571						
Applicant S	IEMENS AKTIENGESELLSCHAFT					
This international preliminary exami and is transmitted to the applicant ac	mational preliminary examination report has been prepared by this International Preliminary Examining Authority nsmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of	This REPORT consists of a total of6 sheets, including this cover sheet.					
This report is also accompanie	ed by ANNEYES in about a state of the decision					
amended and are the basis for 70.16 and Section 607 of the	this report and/or sheets containing rectifications made before this Authority (see Rule Administrative Instructions under the PCT).					
These annexes consist of a tot						
3. This report contains indications relati	ing to the following items:					
I Basis of the report						
II Priority	II Priority					
III Non-establishment of	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
V Reasoned statement u citations and explanat	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
						
VII Certain defects in the	VII Certain defects in the international application					
VIII Certain observations	VIII Certain observations on the international application					
Date of submission of the demand	Date of completion of this report					
11 May 2004 (11.05.20	1 May 2004 (11.05.2004) 22 February 2005 (22.02.2005)					
Name and mailing address of the IPEA/EP	Authorized officer					
Facsimile No.	Telephone No.					
Form PCT/IDE A /400 (comment of the state of						

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/003913

	of the re						
1. With	regard to	the elements of the international application:*					
	the inter	the international application as originally filed					
\boxtimes	the desc	ription:					
	pages	1-8	, as originally filed				
	pages		, filed with the demand				
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K	pages	1-6	, as originally filed				
	pages	, as amended (together with					
	pages		, filed with the demand				
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the i	nternatioi	o the language, all the elements marked above were available or furnished to this Au nal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language					
		guage of a translation furnished for the purposes of international search (under Rule 23					
		guage of publication of the international application (under Rule 48.3(b)).					
		nguage of the translation furnished for the purposes of international preliminary examples	mination (under Rule 55.2 and/				
3. With	ımınary e	to any nucleotide and/or amino acid sequence disclosed in the international examination was carried out on the basis of the sequence listing:	application, the international				
│ │		ned in the international application in written form.					
		ogether with the international application in computer readable form.					
	1	ned subsequently to this Authority in written form.					
	!	ned subsequently to this Authority in computer readable form.					
	interna	tatement that the subsequently furnished written sequence listing does not go ational application as filed has been furnished.					
	The st	tatement that the information recorded in computer readable form is identical to the furnished.	he written sequence listing has				
4.	The ar	mendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
1		the drawings, sheets/fig					
5.	This re	eport has been established as if (some of) the amendments had not been made, since to the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	they have been considered to go				
in to and	lacement his repor 70.17).	sheets which have been furnished to the receiving Office in response to an invitation rt as "originally filed" and are not annexed to this report since they do not conent sheet containing such amendments must be referred to under item 1 and annexed to	ontain amendments (Rule 70.16				
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DE 03/03913

v. 	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement	ty;

1.	Statement			
	Novelty (N)	Claims	4-6	YES
		Claims	1-3	NO
	Inventive step (IS)	Claims		YES
		Claims	1-6	NO
	Industrial applicability (IA)	Claims	1-6	YES
		Claims		NO
	Citations and explanations			

Citations and explanations

The following documents were cited in the 1. international search report:

D1: DE 100 49 994 A (ENDRESS HAUSER GMBH CO) 11 April 2002 (2002-04-11)

D2: EP-A-0 545 042 (MOTOROLA INC) 9 June 1993 (1993-06-09)

- Document D1 is considered the prior art closest to 2. the subject matter of independent claim 1.
- 2.1. Document D1 discloses a voltage supply circuit (D1, figure 1)
 - a) with a plurality of voltage supply components Q1, Q2 for supplying voltage to various assemblies and/or interfaces V1, V2 in an electric system (D1, column 1, lines 60-68),
 - b) with a control circuit 1, 2, 3 for controlling a first voltage supply component (D1, column 2, lines 3-16),

- c) said control circuit being linked to those voltage supply outputs U12, U21, GND of various voltage supply components between which a maximum voltage difference occurs during operation (D1, figure 1),
- d) and said control circuit being configured such that, when the maximum voltage difference deviates from a reference value ΔU12, the first voltage supply component is readjusted so that the deviation is reduced (D1, column 2, lines 47-56 and column 4, lines 50-56).
- 2.2. Thus the combination of features described in claim 1 is known from document D1. Consequently, claim 1 does not satisfy the requirements of PCT Article 33(2) because the subject matter of this claim is not novel.
- 3. Dependent claims 2 and 3 do not contain any additional features that, in combination with the features of any claim to which they refer back, meet the PCT requirements for novelty (PCT Article 33(2)). The reasons are as follows:
 - Claim 2: The control circuit is configured such that the maximum voltage difference U12-UGND essentially does not exceed a prescribed maximum voltage (D1, column 2, lines 52-54).
 - Claim 3: Document D1 discloses an emergency shut-off device 2 for shutting off the voltage supply when the maximum voltage difference exceeds a prescribed maximum voltage (D1, column 2, lines 52-54).

- 4. Document D1 is considered the prior art closest to the subject matter of independent claim 4.
- 4.1. The subject matter of claim 4 differs from the voltage supply circuit disclosed in document D1 merely by the feature wherein said circuit is used to supply voltage to a communications system.
- 4.2. Claim 4 thus relates to a novel use of the voltage supply circuit known from D1.
- 4.3. However, a similar voltage supply circuit 200 with a plurality of voltage supply components 204, 206 and with a control circuit 208 for supervising and limiting voltage was already used to supply voltage to a communications system 218 (cf. document D2, column 3, lines 4-46 and figure 2).
- 4.4. Accordingly, the subject matter of claim 4 consists merely in the fact that a device that is known from D2 (communications system with voltage supply) is replaced by an element (voltage supply) that is known from D1, the properties of which make it obviously useful for the purpose in question (analogous exchange).
- 4.5. Therefore, the subject matter of claim 4 does not involve an inventive step (PCT Article 33(3)).
- 5. The features of dependent claims 5 and 6 merely define further obvious uses of the voltage supply circuit known from document D1. Therefore, the subject matter of said claims does not involve an inventive step and thus does not fulfill the criterion set out in PCT Article 33(3)).